

12-339

Name:

G. 8511

Number:

041 016

Date:

72/9/98

Phone:

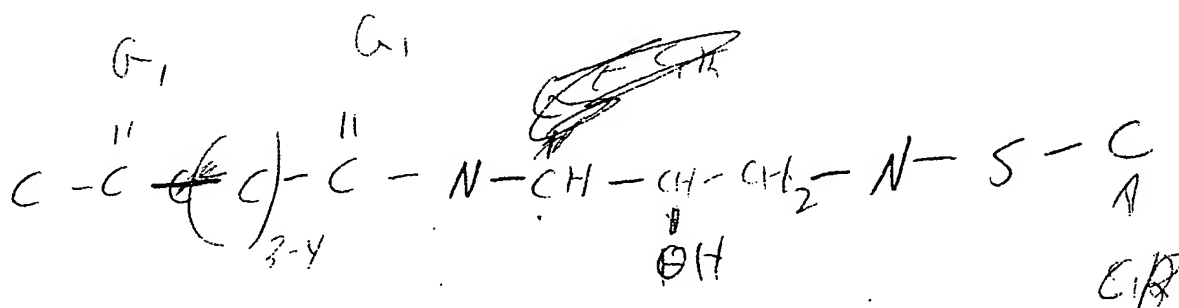
308453

Art Unit:

1013

3B 09

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).



10/784916  
Examiner notes

$$G_1 = 0.5 \text{ N}$$

Search for 09/04/016 - 12/9/98  
(parent application)

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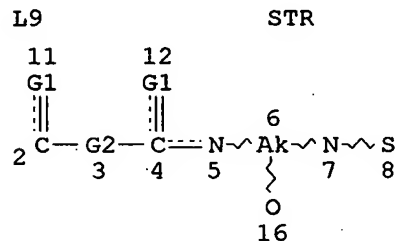
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STRUCTURE FILE UPDATES: 6 DEC 98 HIGHEST RN 215160-44-4  
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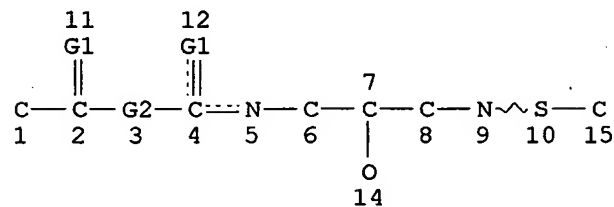
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 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
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 NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE  
 L11 293 SEA FILE=REGISTRY SSS FUL L9  
 L12 STR



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 DEFAULT MLEVEL IS ATOM  
 DEFAULT ECLEVEL IS LIMITED

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 NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L13 0 SEA FILE=REGISTRY SUB=L11 SSS FUL L12

100.0% PROCESSED 7 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

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FILE 'WPIDS' ENTERED AT 15:06:35 ON 09 DEC 1998

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FILE LAST UPDATED: 03 DEC 1998

&lt;19981203/UP&gt;

&gt;&gt;&gt;UPDATE WEEKS:

MOST RECENT DERWENT WEEK 199848 &lt;199848/DW&gt;

DERWENT WEEK FOR CHEMICAL CODING: 199843

DERWENT WEEK FOR POLYMER INDEXING: 199845

DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

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L14 40 SEA FILE=WPIDS ABB=ON PLU=ON ("VAZQUEZ M"/AU OR  
"VAZQUEZ M L"/AU)  
L15 1028 SEA FILE=WPIDS ABB=ON PLU=ON ("MUELLER R"/AU OR  
"MUELLER R A"/AU)  
L16 796 SEA FILE=WPIDS ABB=ON PLU=ON ("MULLER R"/AU OR "MULLER  
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L17 4 SEA FILE=WPIDS ABB=ON PLU=ON ("MEULLER R"/AU OR  
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L18 84 SEA FILE=WPIDS ABB=ON PLU=ON ("TALLEY J"/AU OR "TALLEY  
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L19 56 SEA FILE=WPIDS ABB=ON PLU=ON ("GETMAN D"/AU OR "GETMAN  
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L21 39 SEA FILE=WPIDS ABB=ON PLU=ON ("FRESKOS J"/AU OR  
"FRESKOS J N"/AU)  
L22 1704 SEA FILE=WPIDS ABB=ON PLU=ON (L14 OR L15 OR L16 OR L17  
OR L18 OR L19 OR L20 OR L21)  
L23 58 SEA FILE=WPIDS ABB=ON PLU=ON L22 AND (PROTEASE OR  
PROTEINASE)  
L24 49 SEA FILE=WPIDS ABB=ON PLU=ON L22 AND RETROVIR?  
L26 42 SEA FILE=WPIDS ABB=ON PLU=ON L23 AND L24  
L27 3 SEA FILE=WPIDS ABB=ON PLU=ON L26 AND SUCCIN?  
L28 1 SEA FILE=WPIDS ABB=ON PLU=ON L26 AND SULFON?  
L29 30 SEA FILE=WPIDS ABB=ON PLU=ON L26 AND SULPHON?  
L30 3 SEA FILE=WPIDS ABB=ON PLU=ON (L28 OR L29) AND L27

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L30 ANSWER 1 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD

AN 98-332223 [29] WPIDS

CR 94-083052 [10]; 95-392184 [50]; 98-158356 [12]

DNC C98-102918  
 TI Inhibition of **retroviral protease** - by  
 administration of **succinoyl-amino-hydroxy-ethyl-amino  
 sulphonamide**.  
 DC B05  
 IN **DECRESCENZO, G A; FRESKOS, J N; GETMAN,  
 D; MUELLER, R A; TALLEY, J J; VAZQUEZ,  
 M L**  
 PA (MONS) MONSANTO CO; (SEAR) SEARLE & CO G D  
 CYC 1  
 PI US 5760076 A 980602 (9829)\* 33 pp  
 ADT US 5760076 A CIP of US 92-935940 920825, Div ex US 93-110912 930824,  
 US 95-541747 951010  
 FDT US 5760076 A Div ex US 5463104  
 PRAI US 93-110912 930824; US 92-935940 920825; US 95-541747 951010  
 AN 98-332223 [29] WPIDS  
 CR 94-083052 [10]; 95-392184 [50]; 98-158356 [12]  
 AB US 5760076 A UPAB: 980722

Inhibition of a **retroviral protease** comprises  
 administering composition comprising a hydroxyethylaminosulphonamide  
 derivative of formula (I), or one of its salts, and a carrier. x =  
 0-2; t = 0 or 1; R1 = H, -CH2SO2NH2, -CO2CH3, -CONHCH3, -CON(CH3)2,  
 -CH2C(O)NHCH3, -CH2C(O)N(CH3)2, -CONH2, -C(CH3)2(SH),  
 -C(CH3)2(SCH3), -C(CH3)2(S(O)CH3), -C(CH3)2(S(O)2CH3), alkyl, halo  
 alkyl, alkenyl, alkynyl, cycloalkyl, or the side chain of  
 asparagine, S-methyl cysteine and their corresponding sulphoxide and  
**sulphone** derivatives, glycine, leucine, isoleucine,  
 allo-leucine, tertiary leucine, phenylalanine, ornithine, alanine,  
 histidine, norleucine, glutamine, valine, threonine, serine, o-alkyl  
 serine, aspartic acid, beta -cyano alanine or allothreonine; R2 =  
 alkyl, aryl, cycloalkyl, cycloalkylalkyl or arylalkyl (each  
 optionally substituted with halo or alkyl), -NO2, -C triple bond N,  
 CF3, -OR9 or -SR9; R9 = H, or alkyl; R3 = H, alkyl, haloalkyl,  
 alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl,  
 cycloalkylalkyl, heterocycloalkyl, heteroaryl,  
 heterocycloalkylalkyl, aryl, aralkyl, heteroaralkyl, aminoalkyl  
 (optionally mono- or disubstituted by alkyl, aryl, aralkyl,  
 cycloalkyl, cycloalkylalkyl, heteroaryl, heteroarylalkyl,  
 heterocycloalkyl or heterocycloalkylalkyl or in the case of  
 disubstitution, the substituents together with the nitrogen atom to  
 which they are attached form heterocycloalkyl or heteroaryl); X' =  
 N, O or C(R17); R17 = H, or alkyl; Y, Y' = O, S or NR15; R15 = R3;  
 R4 = alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl,  
 cycloalkyl, cycloalkylalkyl, heterocycloalkyl, heteroaryl,  
 heterocycloalkylalkyl, aryl, aralkyl, heteroaralkyl, aminoalkyl  
 (optionally mono- or disubstituted by alkyl, aryl, aralkyl,  
 cycloalkyl, cycloalkylalkyl, heteroaryl, heteroarylalkyl,  
 heterocycloalkyl or heterocycloalkylalkyl or in the case of  
 disubstitution, the substituents together with the nitrogen atom to  
 which they are attached form heterocycloalkyl or heteroaryl); R6 = H  
 or alkyl; R30-R32 = R1 or one of R1 and R30 together with one of R31  
 and R32 and the carbon atoms to which they are attached form  
 cycloalkyl or R30 and R30 together with the carbon atoms to which  
 they are attached form 3-6C cycloalkyl; R33, R34 = R3; or R33 and  
 R34 together with X' = cycloalkyl, aryl, heterocyclyl or heteroaryl,  
 provided that when X' is O, then R34 is absent.

USE - The method is used in the inhibition of HIV  
**protease**, and is thus useful in the treatment of HIV  
 infection and AIDS (claimed). The method can also be used to inhibit

other strains of HIV, such as HIV-2, and other viruses such as human T-cell leukaemia virus, simian immunodeficiency virus, feline leukaemia virus, respiratory syncytial virus, hepadnavirus, cytomegalovirus and picornavirus.  
Dwg.0/0

L30 ANSWER 2 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
AN 97-020446 [02] WPIDS  
DNC C97-006581  
TI New (amino-hydroxy-phenyl-butyl) **sulphonyl** urea derivs. -  
with N-(quinolinyl-carbonyl)amino-**succinamide** gp., useful  
as **retroviral protease** inhibitors.  
DC B02  
IN DECRESCENZO, G A; GETMAN, D P; MUELLER, R  
A; SUN, E T; TALLEY, J J; VAZQUEZ, M L  
PA (SEAR) SEARLE & CO G D  
CYC 1  
PI US 5578606 A 961126 (9702)\* 37 pp  
ADT US 5578606 A US 92-968712 921030  
PRAI US 92-968712 921030  
AN 97-020446 [02] WPIDS  
AB US 5578606 A UPAB: 970108  
Peptide analogues of formula (I) and their salts are new. n = 0-2;  
R3 = alkyl (opt. substd. by Ar, pyridyl, pyrrolyl, imidazolyl,  
pyrazolyl, pyrimidinyl, triazolyl, oxazolyl or thiazolyl); Ar =  
phenyl (opt. substd. by Me, OMe, t-butoxy, F, Cl, OH, NH2 or CN); R8  
= as R3, CN, OH or COOH, alkylthio, alkylsulphonyl, SO2Ar, 1-8C  
alkanoyl, alkoxycarbonyl (opt. substd. by Ar, dicarbamoyl,  
dialkylamino, NRAr, 2-(Het)ethoxy, pyrrolidinyl, piperidinyl,  
morpholinyl, thiomorpholinyl or 4-alkylpiperazinyl; Het =  
pyrrolidinyl, piperidinyl, piperazinyl, morpholinyl or  
thiomorpholinyl; R = alkyl; alkyl, alkoxy have 1-8C.  
USE - (I) are **retroviral** (esp. HIV) **protease**  
inhibitors for treating **retroviral** infections. Daily dose  
is 0.001-10 (esp. 0.01-1) mg/kg.  
Dwg.0/0

L30 ANSWER 3 OF 3 WPIDS COPYRIGHT 1998 DERWENT INFORMATION LTD  
AN 95-392184 [50] WPIDS  
CR 94-083052 [10]; 98-158356 [12]; 98-332223 [29]  
DNC C95-168971  
TI 3-Sulphonamido-propanol amide(s) of **succinic** and  
glutaric acids - are **retroviral protease**  
inhibitors, used for e.g. HIV, leukaemia viruses, cytomegalovirus,  
picornavirus, feline and simian viruses.  
DC B05  
IN DECRESCENZO, G A; FRESKOS, J N; GETMAN,  
D; MUELLER, R A; TALLEY, J J; VAZQUEZ,  
M L  
PA (SEAR) SEARLE & CO G D  
CYC 1  
PI US 5463104 A 951031 (9550)\* 32 pp  
ADT US 5463104 A CIP of US 92-935490 920825, US 93-110912 930824  
PRAI US 93-110912 930824; US 92-935490 920825  
AN 95-392184 [50] WPIDS  
CR 94-083052 [10]; 98-158356 [12]; 98-332223 [29]  
AB US 5463104 A UPAB: 980722  
3-Sulphonamido-propanolamides of **succinic** and  
glutaric acids, of formula(I), and their salts and esters, are new:

x = 0-2; t = 0 or 1; Y, Y' = O or S; X' = NR34 or O; or X'R33 together = 3-8C cyclohexyl or aryl; all aryl = phenyl or naphthyl (both opt. substd. by alkyl, alkoxy, halo, OH, amino, NHAc, nitro, cyano, or haloalkyl); R1, R30-R32 = H, OH, CH2Ac, CH2SO2NH2, COOMe, CONHMe, CONMe2, CONH2, CMe2SH, CMe2SMe, CMe2SOMe, 1-8C alkyl or haloalkyl, 2-8C alkenyl, 2-10C alkynyl, aralkyl, 3-8C cycloalkyl, or the side chain of the amino acids asparagine, S-methylcysteine or its SO or SO2 analogues, leucine, isoleucine, alloisoleucine, tert-leucine, norleucine, phenylalanine, ornithine, alanine, glutamine, valine, threonine, allothreonine, serine and O-alkyl derivs., aspartic acid, or beta-cyanoalanine; (note: all alkenyl can include more than one double bond); or R30, R32 and attached C atoms = 3-8C cycloalkyl; R2 = 1-8C alkyl, aryl, aralkyl, 3-8C cycloalkyl, cycloalkylalkyl (all opt. substd. by halo, alkyl, nitro, cyano, CF3, OR9, or SR9; R9 = H or 1-8C alkyl; R3, R33, R34 = H, 1-8C alkyl or haloalkyl or hydroxyalkyl, 2-8C alkenyl, 2-10C alkynyl, 1-8C alkoxy, 1-8C alkyl, 3-8C cycloalkyl, cycloalkylalkyl, aryl, aralkyl, or aminoalkyl (opt. N-mono- or N,N-di- substd. by alkyl, aryl, aralkyl, cycloalkyl, or cycloalkylalkyl); R4 = as R3 but not H; and R6 = H or 1-8C alkyl.

USE - (I) have antiviral activity, partic. **retroviral**, as **protease** inhibitors. They are of use for treatment and prophylaxis of HIV, and expected to be also for HIV-2, human T-cell leukaemia, simian immunodeficiency, feline leukaemia, and respiratory syncytial viruses, hepadanavirus, cytomegalovirus, and picornavirus.

Dwg.0/0

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(FILE 'WPIDS' ENTERED AT 15:00:40 ON 09 DEC 1998)  
L30 3 S L28,L29 AND L27  
SEL PN APPS

FILE 'HCAPLUS' ENTERED AT 15:05:08 ON 09 DEC 1998  
L31 3 S E1-E8  
SEL RN

FILE 'REGISTRY' ENTERED AT 15:05:27 ON 09 DEC 1998  
L32 93 S E9-E101  
L33 17 S L11 AND L32

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FILE LAST UPDATED: 9 Dec 1998 (981209/ED)

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L31 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 1998 ACS

AN 1996:725344 HCAPLUS

DN 126:75247

TI Preparation of .alpha.- and .beta.-amino acid hydroxyethylamino sulfonyl urea derivatives as retroviral protease inhibitors

IN Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel P.; Decrescenzo, Gary A.; Sun, Eric T.

PA G. D. Searle &amp; Co., USA

SO U.S., 37 pp.

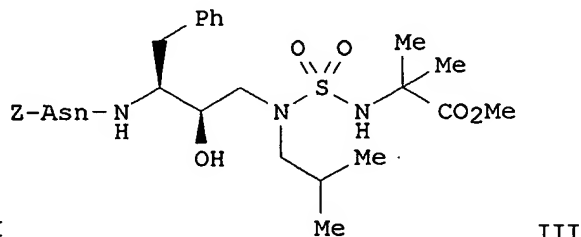
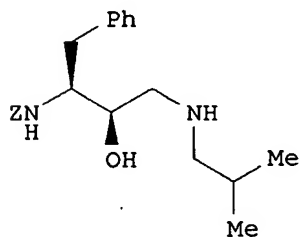
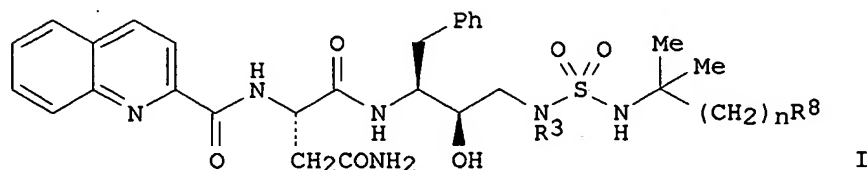
CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5578606	A	19961126	US 92-968712	19921030 <--
OS	MARPAT 126:75247				
GI					



AB .alpha.- And .beta.-amino acid hydroxyethylamino sulfonyl urea deriv. compds., e.g. I [R3 = C1-8 alkyl, (un)substituted C1-8 alkylphenyl, C1-8 heteroaralkyl; R8 = (un)substituted Ph, heterocyclyl, CN, OH, CO2H, C1-8 alkylthio, (un)substituted phenylsulfonyl, C1-8 alkanoyl, C1-8 alkoxy carbonyl, C1-8 dialkylaminocarbonyl, N-C1-8- alkyl-N-phenylcarbonyl,

2-heterocyclylethoxy, heterocyclyl; n = 0-2], are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Thus, coupling of protected amino(hydroxy)phenylbutylamine II (Z = PhCH<sub>2</sub>O<sub>2</sub>C) (prepd. in 3 steps from chloromethyl ketone Z-L-Phe-CH<sub>2</sub>Cl) with ClSO<sub>2</sub>NHMe<sub>2</sub>CO<sub>2</sub>Me, followed by hydrogenolysis and coupling with Z-Asn-OH gave inhibitor III.

L31 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 1998 ACS

AN 1995:964989 HCAPLUS

DN 124:176937

TI N-[(Succinoylamino)hydroxypropyl]sulfonamides useful as retroviral protease inhibitors

IN Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman, Daniel; Decrescenzo, Gary A.; Freskos, John N.

PA G. D. Searle and Co., USA

SO U.S., 32 pp. Cont.-in-part of U.S. Ser. No. 935,490, abandoned  
CODEN: USXXAM

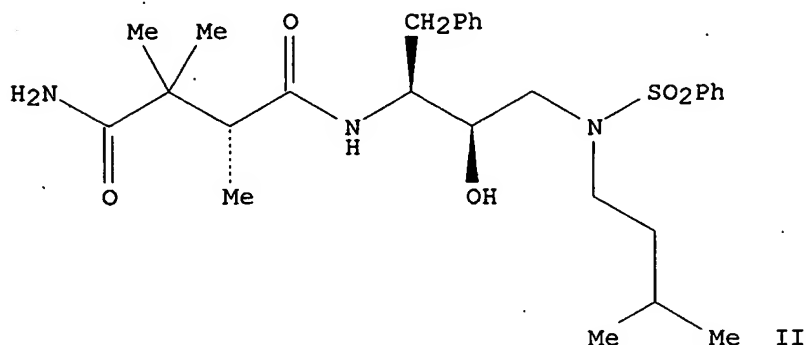
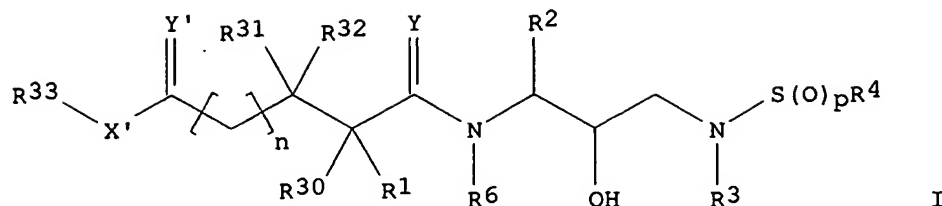
DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
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	AT 154800	E	19970715	AT 93-920213	19930824	<--
	ES 2103488	T3	19970916	ES 93-920213	19930824	<--
	US 5714605	A	19980203	US 95-541350	19951010	<--
	US 5760076	A	19980602	US 95-541747	19951010	<--
PRAI	US 92-935490		19920825			<--
	US 92-935940		19920825			<--
	US 93-110912		19930824			<--
OS	MARPAT 124:176937					
GI						





AB Succinoylamino hydroxyethylamino sulfonamide compds. I or a pharmaceutically acceptable salt or ester thereof, wherein p represents 0, 1 or 2; n represents either 0 or 1; X' represents N(R34) or O; or R33X' represents cycloalkyl or aryl radicals; Y and Y' each independently represent O or S; R1, R30, R31 and R32 each independently represent hydrogen, OH, (CH2)C(O)CH3, CH2SO2NH2, CO2CH3, CONHCH3, CON(CH3)2, CH2C(O)NHCH3, CH2C(O)N(CH3)2, CONH2, C(CH3)2(SH), C(CH3)2(SCH3), C(CH3)2[S(O)CH3], C(CH3)2[S(O)2CH3], alkyl, haloalkyl, alkenyl, alkynyl, aralkyl or cycloalkyl radicals, or the side chain of the amino acid asparagine, S-Me cysteine or the corresponding sulfoxide or sulfone derivs. thereof, leucine, isoleucine, allo-isoleucine, tert-leucine, phenylalanine, ornithine, alanine, norleucine, glutamine, valine, threonine, serine, o-alkyl serine, aspartic acid, .beta.-cyanoalanine or allothreonine; or R30 and R32 together with the carbon atoms to which they are attached form a cycloalkyl radical; R2 = e.g., alkyl, aryl, cycloalkyl; R3, R33, R34 = e.g., H, alkyl, haloalkyl; R4 = e.g., alkyl, haloalkyl, alkenyl; R6 = H, alkyl; are effective as retroviral protease inhibitors, and in particular as inhibitors of HIV protease. Thus, e.g., butanediamide II was prep'd. by coupling of benzyl (R)-2,2,3-trimethylsuccinate (prepn. given) with 2(R)-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1(S)-(phenylmethyl)propylamine (prepn. given) followed by benzyl ester hydrogenolysis and amidation, and exhibited IC50 = 2 nM for inhibition of HIV protease.

L31 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 1998 ACS

AN 1994:579258 HCAPLUS

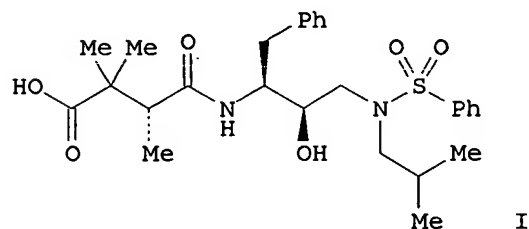
DN 121:179258

TI N-(alkanoylamino-2-hydroxypropyl)sulfonamides useful as HIV protease inhibitors

IN Vazquez, Michael L.; Mueller, Richard A.; Talley, John J.; Getman,

Daniel; Decrescenzo, Gary A.; Freskos, John N.  
 PA Searle, G. D., and Co., USA; Monsanto Co.  
 SO PCT Int. Appl., 103 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9404491	A1	19940303	WO 93-US7815	19930825 <--
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	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	EP 656886	A1	19950614	EP 93-920213	19930824 <--
	EP 656886	B1	19970625		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
	JP 08500824	T2	19960130	JP 93-506531	19930824 <--
	AT 154800	E	19970715	AT 93-920213	19930824 <--
	ES 2103488	T3	19970916	ES 93-920213	19930824 <--
	AU 674702	B2	19970109	AU 93-50819	19930825 <--
	NO 9500670	A	19950222	NO 95-670	19950222 <--
	FI 9500841	A	19950223	FI 95-841	19950223 <--
PRAI	US 92-935490		19920825 <--		
	WO 93-US7815		19930825		
OS	MARPAT 121:179258				
GI					



AB The title compds. R33(R34)X1C(:Y1)(CH2)tC(R31)(R32)C(R30)(R1)C(:Y)N(R6)C(R2)HC(OH)HCH2N(R3)S(O)xR4 [R1 = H, CH2SO2NH2, CO2Me, CONHMe, CONMe2, etc.; R2 = alkyl, aryl, cycloalkyl, (un)substituted cycloalkylalkyl and arylalkyl; R3 = H, alkyl, haloalkyl, alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl, etc.; R4 = alkyl, haloalkyl alkenyl, alkynyl, hydroxyalkyl, alkoxyalkyl, cycloalkyl etc.; R6 = H, alkyl; R30-R32 = R1; R1R30R31 = cycloalkyl; R1R30R32C = cycloalkyl; R33, R34 = H, R3; R33R34X1 = cycloalkyl, aryl, heterocyclyl, etc.; X1 = O, N, CR17; R17 = H, alkyl; Y, Y1 = O, S, NR15; R15 = H, R3; t = 0, 1; x = 0-2], useful as HIV protease inhibitors for the treatment of AIDS, are prepd. Thus, sulfonamide I was prepd. and demonstrated IC50 against HIV protease of 1 nmol.

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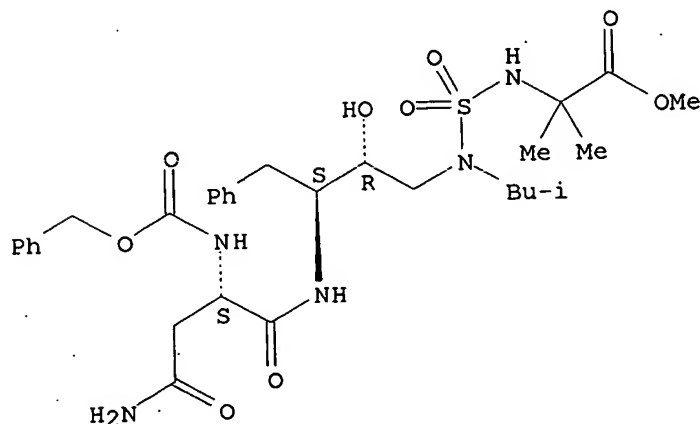
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conducting SmartSELECT searches.

=> d ide can tot 133

L33 ANSWER 1 OF 17 REGISTRY COPYRIGHT 1998 ACS  
RN 185256-67-1 REGISTRY  
CN 10-Thia-2,5,9,11-tetraazatridecanedioic acid, 3-(2-amino-2-oxoethyl)-  
7-hydroxy-12,12-dimethyl-9-(2-methylpropyl)-4-oxo-6-(phenylmethyl)-,  
13-methyl 1-(phenylmethyl) ester, 10,10-dioxide, [3S-(3R\*,6R\*,7S\*)]-  
(9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C31 H45 N5 O9 S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:75247

L33 ANSWER 2 OF 17 REGISTRY COPYRIGHT 1998 ACS  
RN 173590-71-1 REGISTRY  
CN Butanediamide, N4-[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amin  
o]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, [1S-[1R\*(S\*),2S\*]]-  
(9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C27 H39 N3 O5 S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

## 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 15 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157445-98-2 REGISTRY

CN Butanoic acid, 4-[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN SC 98A

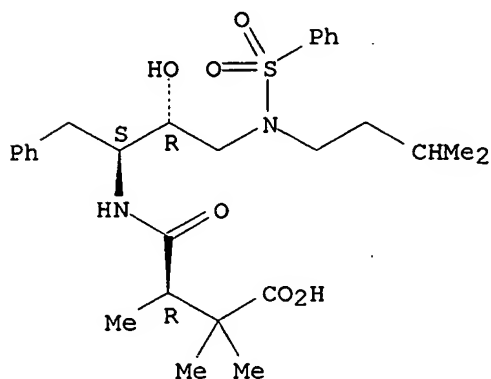
FS STEREOSEARCH

MF C28 H40 N2 O6 S

SR CA

LC STN Files: CA, CAPLUS, IPA, TOXLINE, TOXLIT, USPATFULL

Absolute stereochemistry.



3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:193129

REFERENCE 2: 124:176937

REFERENCE 3: 121:179258

L33 ANSWER 16 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157445-97-1 REGISTRY

CN Butanoic acid, 4-[[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)

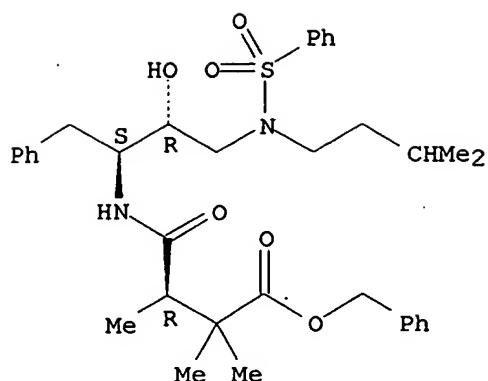
FS STEREOSEARCH

MF C35 H46 N2 O6 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 17 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157445-96-0 REGISTRY

CN Butanediamide, N4-[2-hydroxy-3-[(3-methylbutyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, [1S-[1R\*(S\*),2S\*]]-(9CI) (CA INDEX NAME)

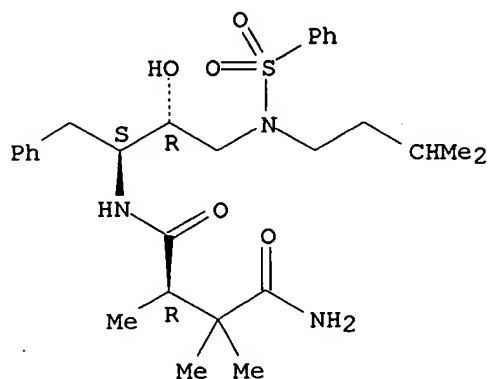
FS STEREOSEARCH

MF C28 H41 N3 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

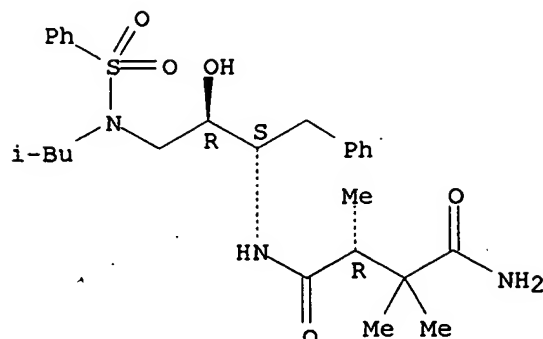


2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

Absolute stereochemistry.

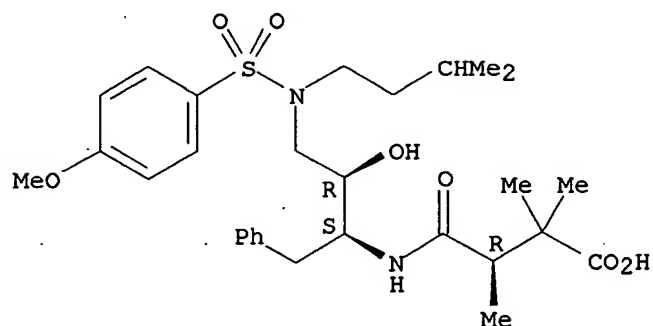


1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

L33 ANSWER 3 OF 17 REGISTRY COPYRIGHT 1998 ACS  
RN 157474-44-7 REGISTRY  
CN Butanoic acid, 4-[[2-hydroxy-3-[[[4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C29 H42 N2 O7 S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

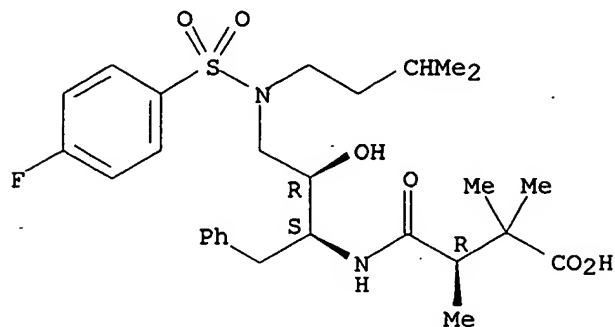
REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 4 OF 17 REGISTRY COPYRIGHT 1998 ACS  
RN 157446-09-8 REGISTRY  
CN Butanoic acid, 4-[[3-[[[4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)

FS STEREOSEARCH  
 MF C28 H39 F N2 O6 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



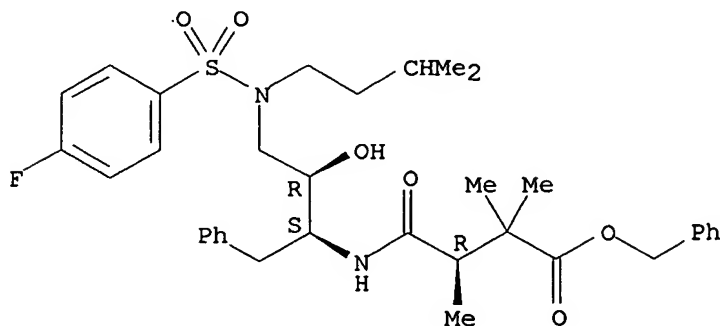
2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 5 OF 17 REGISTRY COPYRIGHT 1998 ACS  
 RN 157446-08-7 REGISTRY  
 CN Butanoic acid, 4-[[[3-[[[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C35 H45 F N2 O6 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



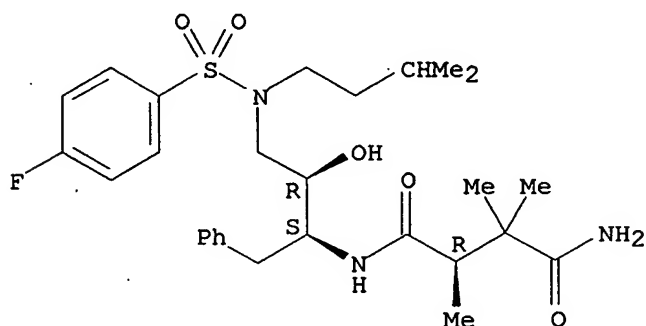
2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 6 OF 17 REGISTRY COPYRIGHT 1998 ACS  
RN 157446-07-6 REGISTRY  
CN Butanediamide, N4-[3-[[[(4-fluorophenyl)sulfonyl](3-methylbutyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C28 H40 F N3 O5 S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

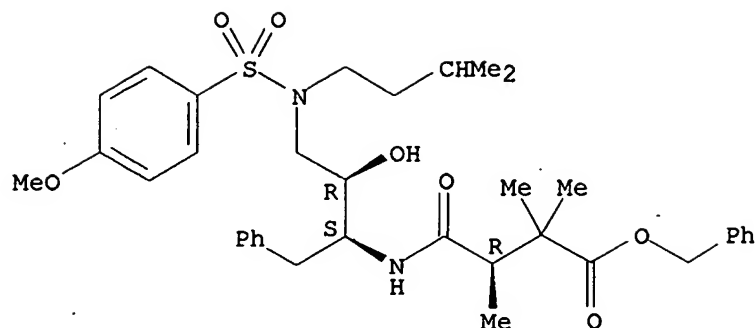
REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 7 OF 17 REGISTRY COPYRIGHT 1998 ACS  
RN 157446-06-5 REGISTRY  
CN Butanoic acid, 4-[[[2-hydroxy-3-[[[(4-methoxyphenyl)sulfonyl](3-methylbutyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)  
FS STEREOSEARCH  
MF C36 H48 N2 O7 S  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.





2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 8 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN **157446-05-4** REGISTRY

CN Butanediamide, N4-[2-hydroxy-3-[[ (4-methoxyphenyl)sulfonyl] (3-methylbutyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)

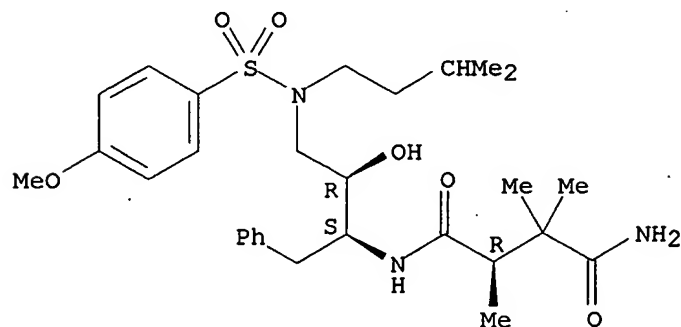
FS STEREOSEARCH

MF C29 H43 N3 O6 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

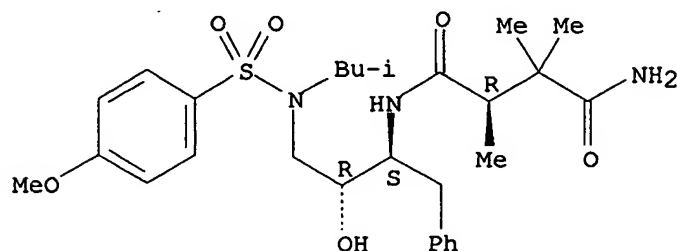
L33 ANSWER 9 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN **157446-04-3** REGISTRY

CN Butanediamide, N4-[2-hydroxy-3-[[ (4-methoxyphenyl)sulfonyl] (2-methylpropyl)amino]-1-(phenylmethyl)propyl]-2,2,3-trimethyl-,

[1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C28 H41 N3 O6 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



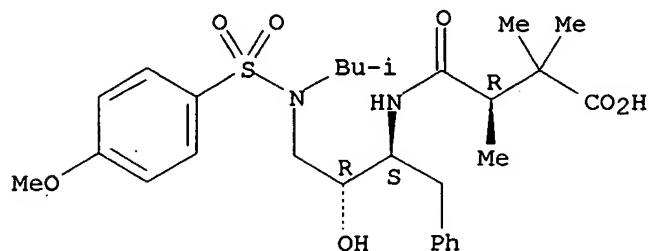
2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 10 OF 17 REGISTRY COPYRIGHT 1998 ACS  
 RN 157446-03-2 REGISTRY  
 CN Butanoic acid, 4-[[[2-hydroxy-3-[[[(4-methoxyphenyl)sulfonyl](2-methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-], [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C28 H40 N2 O7 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 11 OF 17 REGISTRY COPYRIGHT 1998 ACS  
 RN 157446-02-1 REGISTRY  
 CN Butanoic acid, 4-[[[2-hydroxy-3-[[[(4-methoxyphenyl)sulfonyl](2-

methylpropyl)amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)

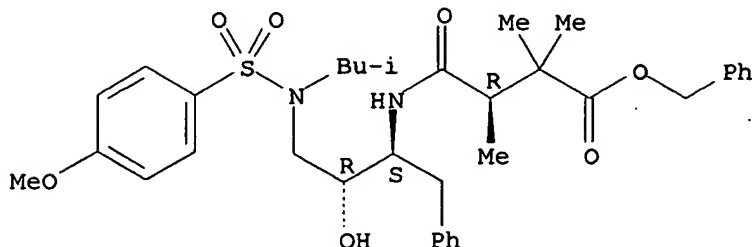
FS STEREOSEARCH

MF C35 H46 N2 O7 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 12 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157446-01-0 REGISTRY

CN Propanediamide, N-[2-hydroxy-3-[(2-methylpropyl)(phenylsulfonyl)amino]-1-(phenylmethyl)propyl]-2-methyl-, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)

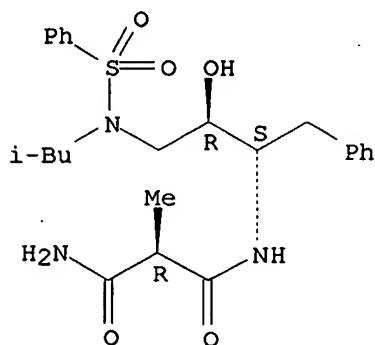
FS STEREOSEARCH

MF C24 H33 N3 O5 S

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)

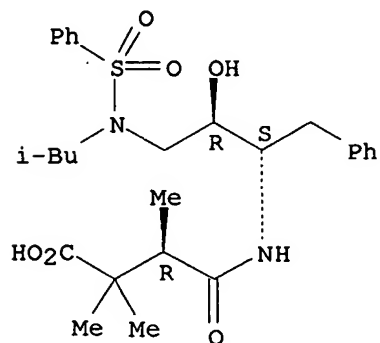
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 121:179258

L33 ANSWER 13 OF 17 REGISTRY COPYRIGHT 1998 ACS

RN 157446-00-9 REGISTRY  
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(2-methylpropyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C27 H38 N2 O6 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



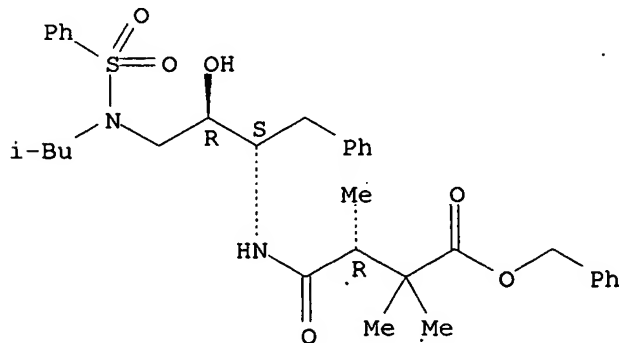
2 REFERENCES IN FILE CA (1967 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:176937

REFERENCE 2: 121:179258

L33 ANSWER 14 OF 17 REGISTRY COPYRIGHT 1998 ACS  
 RN 157445-99-3 REGISTRY  
 CN Butanoic acid, 4-[[[2-hydroxy-3-[(2-methylpropyl) (phenylsulfonyl) amino]-1-(phenylmethyl)propyl]amino]-2,2,3-trimethyl-4-oxo-, phenylmethyl ester, [1S-[1R\*(S\*),2S\*]]- (9CI) (CA INDEX NAME)  
 FS STEREOSEARCH  
 MF C34 H44 N2 O6 S  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)